



ENVIRONMENTAL MANAGEMENT PROGRAM REFUSE DISPOSAL DIVISION



Surface Maintenance (NPDES)

FY-04

Process Map Number(s): SM-01

Background / Purpose: The Local Enforcement Agency and Regional Water Quality Control Board regulate activity at our landfills through enforcement of the Clean Water Act. The construction of a storm-water clarifier within the retention basin is intended to eliminate the NOVs and potential fines from storm-water discharges into the adjacent creek. In addition the use of Best Management Practices will reduce the impact on the clarifier system and keep the landfill compliant with the all storm-water regulatory requirements.

Objective: Continuous Improvement – Resource Conservation

Related Significant Aspects: Improper Drainage, Water Use

Target: Improve upon NPDES Best Management Practices (BMP) program

Target Completion Date(s): Construction of the storm-water clarifier is to be completed by October 31, 2004

Action Plan: Construct storm-water clarifier, keep sedimentation basin pumped out between storm events (10 weeks), install BMPs to include: mulching slopes, silt fencing, erosion control mats and straw wattles where necessary, apply tackifier to selected slopes.

Responsible Person(s): Landfill Engineer

Resources Required: Clarifier construction funding and contract, water pump, fuel, mulch, tackifier, silt fencing, erosion control mats, straw wattles and heavy equipment, labor.

Environmental Performance Indicator(s): Number of Notices of Violation issued per year, number of fines per year, number of additional BMPs instituted at landfill sites.

Comments (including other expected benefits or cost savings): Minimize or eliminate potential for fines from the regulator (Regional Water Quality Control Board –San Diego or L.E.A.)

Baseline Data: Mulch total averaged 20,000 to 40,000 yds³/year. Silt fencing averaged less than 100 lineal feet/year, and there was no pump down of the sedimentation basin.

Approved by: Rory Clay
Mark zu Hone

Landfill Engineer
Environmental Management Representative

See back for EMP Schedule

EMP Schedule						
Step	Action Items	Responsibilities	Role	Schedule	Resources Required	Date Complete
1	Treatment Works design completion	Landfill Engineer	Lead	10/03	RWQCB Approval	
2	Route 1472	Landfill Engineer	Lead	1/04	Design Completion	"On Hold"
3	Advertise Project	Landfill Engineer	Lead	2/04	1472 Approval	"On Hold"
4	Award Contract	Landfill Engineer	Lead	6/04	Successful Bid	"On Hold"
5	Begin Construction	Landfill Engineer	Lead	7/04	Purchase Order	"On Hold"
6	Complete Construction	Landfill Engineer	Lead	10/04	City Approval	"On Hold"
1	Remove Sediment from Basin	Landfill Engineer Landfill Ops	Lead Support	10/31/04	Loader, Dump Truck, Scraper, Dozer, Labor, Fuel	10/31/04
2	Pump Down Basin between Storm Events	Landfill Engineer Landfill Ops	Lead Support	After each storm event	Pump, Fuel and Labor	As Required
3	Apply additional Mulch to slopes	Landfill Engineer Landfill Ops	Lead Support	Continuous (as required)	Mulch, Scraper, Dozer, Labor, Fuel	
4	Apply "Tackifier" to selected slopes	Landfill Engineer Landfill Ops	Lead Support	As required	Tackifier, Water Truck	
5	Add Straw Wattles to base of slopes where necessary	Landfill Engineer Landfill Ops	Lead Support	As required	Straw Wattles and Labor	
6	Install Silt Fencing where necessary	Landfill Engineer Landfill Ops	Lead Support	As required	Silt Fencing and Labor	
7	Install Erosion Control Mats where necessary	Landfill Engineer Landfill Ops	Lead Support	As required	Erosion Control Mats, Staples, Labor	

Comments (report performance/milestones):

A pilot test of the water treatment works was completed in July 02 which included a one year water basin study conducted by our consultant, PBS&J. The study and its recommendations have been reviewed by the Regional Water Quality Control Board (RWQCB). Design completion is scheduled for the winter of 2003 and construction completion is scheduled for mid summer of 2004. Additional research into alternative technologies for mitigating impacts from our storm-water have resulted in suspending the treatment works project while a demonstration

of a soil flocculent is completed. Soilfloc is applied to the storm-water by a drip-system prior to the water entering the retention basin. It is also applied to the steep slopes to prevent erosion and siltation of the storm-water runoff. If this new product meets our requirements then the City will save approximately one million dollars in construction costs associated with the treatment works while meeting or exceeding our goals of preventing silts from entering the biological corridor adjacent to the landfill.